SLUDGEBUSTER -SMIDDY DATA SHEET 25/26

Product Code:	MAGBAG Ref:	Description:
MBSMID1	SMIDDY1	SludgeBuster Inline & Side Stream Filtration Unit

Feature	Description
Maximum System Working Pressure:	10 Bar
Suitable for System Volumes up to:	90,000 Litres
Temperature Range:	0°C - 100°C
Dosing Capacity:	8.1L
Filtration Rate:	150µ to 0.5µ
Inlet Connection (standard):	1"BSP
Outlet Connection (standard):	1"BSP
Filter Body Mounting:	304SS / 316SS
Vessel Body:	304SS / 316SS (complies with PED SEP 2014/68/EU)
Wall mounting plate:	304SS / 316SS
Magnet Grade:	N52H/N54M
Magnet Quality:	304SS
Magnet Field Grade:	12500
Isolation Values & Fittings:	314SS
Microbubble Air Vent:	Brass body, nickel plated / 110°C / Max working pressure 10 Bar
SS Gauss	150µ

MULTI-USE YOU CHOOSE YOUR MICRON - Inline / Side Stream

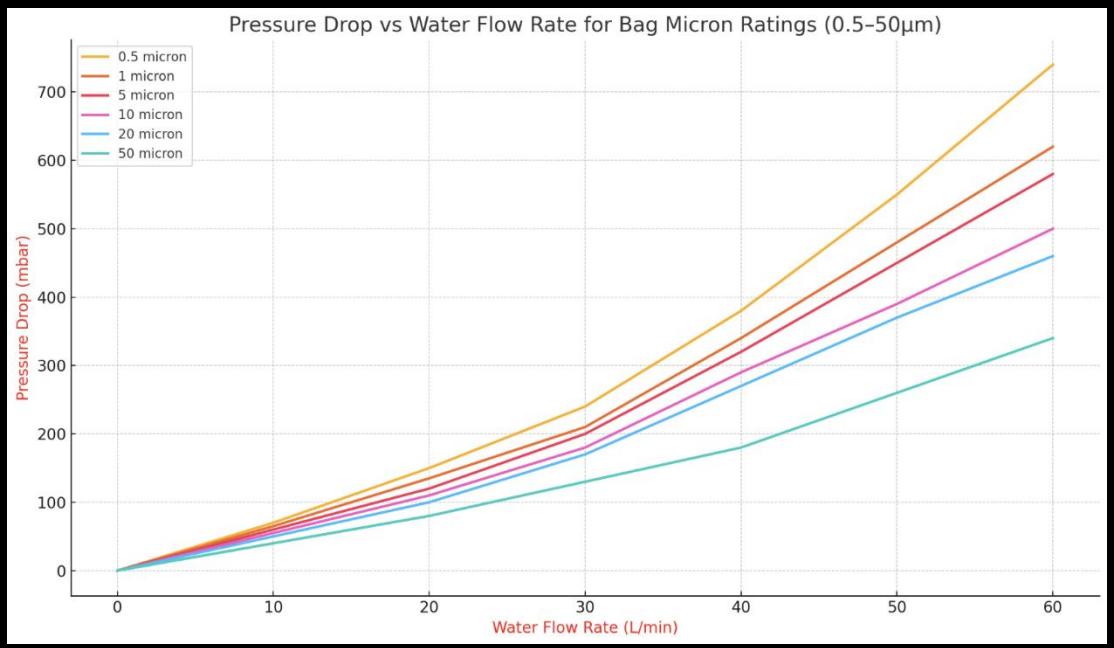
- Stainless Steel 12500 Gauss Magnet
- Neodymium Magnetic Bag Filter
- Stainless Steel Washable Gauze
- Dosing Pot With Dirt & Air Separating Capability
- Pressure Gauge's / BMS Connection points
- Optional Magnesium Anode Rod for Oxygen & pH control
- Demineralisation rig connection points
- 50/30/20/10/5/1/0.5µm Fine Filtration

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DATA SHEET 25/26

Feature	Description
Compliance	Compliant with BSRIA Guidelines BG29 and BG50 for Chemical Dosing, Magnetic Filtration, Fine Filtration, Passive Deaeration and Side Stream Filtration.
Magnetic Filter	Effectively captures magnetic debris before it reaches the filter bag — reducing premature blockage and extending filtration life. This layered protection helps safeguard boilers, chiller systems, and critical system components, enhancing overall efficiency, lowering fuel consumption, and contributing to reduced carbon emissions.
Microbubble Air Separator	Automatically eliminates air and microbubbles from the system — no manual intervention required. Maintenance-free by design, and best installed at a high point for maximum effectiveness. By removing trapped air, it helps prevent magnetite build-up, reduces operational noise, and improves overall system performance in both heating and cooling setups.
Supports All Water Treatment Methods	Suitable for use with liquid chemicals, powdered treatments, or chemical-free water conditioning methods.
8.1L Dosing Pot Capacity	Enables installers and service engineers to safely and efficiently dose the system with water treatment. Includes a dosing funnel and integrated check valve to prevent backflow and ensure safe operation.
1” BSPT Flow, Return Connections	Compatible with most types heating and cooling water systems up to 90,000 litres. Designed with dual inlets and outlets on both sides (2 x inlets, 2 x outlets) to simplify installation. Includes a 1" full-bore stainless steel isolation valve as standard.
Accessory ports are	Provided for pressure monitoring, with gauges or BMS alert sensor integration, and service connections such as ports for demineralisation units.
½” BSPT Drain Connection	The dedicated ½” drain connection ensures complete drainage of system water from the vessel during filter cleaning, allowing for faster servicing.
Magnesium Rod	Replaces the inline magnet and functions as a sacrificial anode, providing corrosion protection. Recommended for use with filter bags to capture any oxide flakes or debris released during anode degradation. Suitable for chemical-free operation or as part of a VDI 2035 water treatment approach.

Filter Bag Basket	The filter basket is fitted with a 150-micron washable mesh lining, allowing it to be used on its own as a coarse screener or as a pre-filter in combination with finer filter bags. The mesh acts as a reusable first-stage membrane — ideal for initiating the cleaning process in heavily contaminated systems before stepping down to finer filtration.
Magnetic Rod, 12500Gauss.	Each magnet is stainless steel and can be easily removed and cleaned. Magnets are fully submerged in system flow to maximise filtration efficiency. Rated for operation up to 100°C.
Installation	Supplied with a backing plate for straightforward wall or frame mounting via 4 x M12 fixing points. For best results, we strongly recommend securing the unit to a Unistrut-style support frame for added stability and ease of maintenance.
Servicing	Filters can be cleaned easily without interrupting the main system, and water treatment or servicing can be performed can safely and efficiently — all while the system remains fully operational.
Stainless Steel Components	Key components are built from high-grade 304 or 316 stainless steel, making the unit robust, easy to maintain, and simple to keep clean during servicing.
Insulation Jacket	The insulation jacket helps minimise heat loss and supports overall system efficiency.
Warranty	A warranty period of 10 years applies from the date of installation.

The chart shows pressure drop (DP) across the **MagBag Smiddy** unit, incorporating both the **magnetic strainer basket** and the **bag filtration chamber**. Performance varies based on **flow rate (L/min)** and **selected filter bag micron rating**.

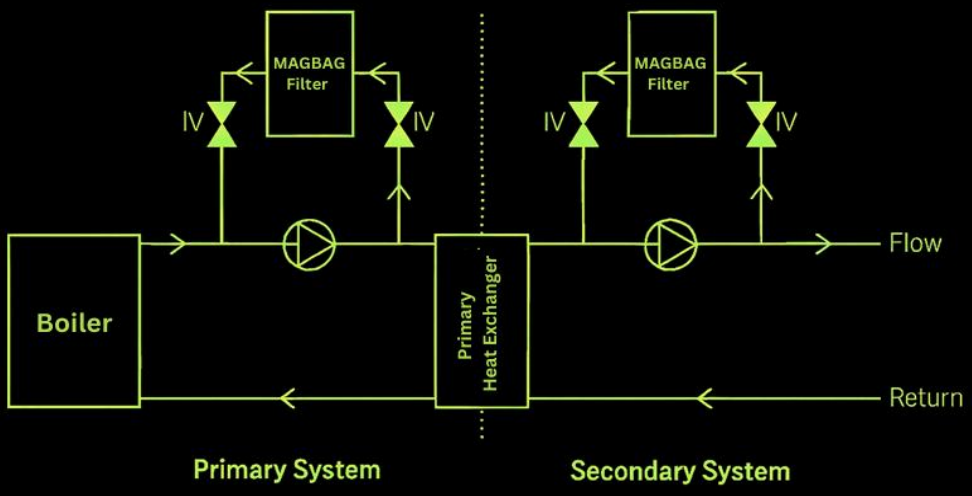


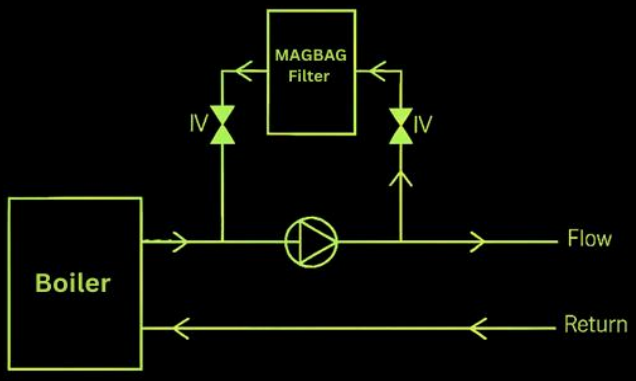
SLUDGEBUSTER -SMIDDY
DATA SHEET 25/26

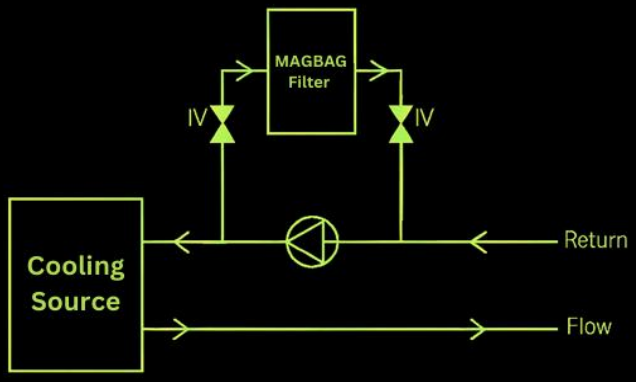
(SMIDDY) - TYPICAL INSTALLATION SCHEMATICS

Correct installation of the filters is essential to ensure optimum operating performance of both the filter and the heating or chilled system.

The typical side-stream installation layouts shown below are for guidance only and may be adapted to suit specific system requirements.







MAGBAG Industries Ltd

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MAGBAG SMIDDY FILTER SIDE-STREAM FILTRATION & IN-LINE DOSING UNIT - INTERNALS

Weight: 22.7kg

Height: 785mm

Width: 345mm

